Atty. Dkt. No. 037010-0105

IFW/

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

McRAE et al.

Title:

METHOD AND SYSTEM FOR

INTEGRATED UNCERTAINTY

**ANALYSIS** 

Appl. No.:

10/613,623

Filing Date:

07/03/2003

Examiner:

Art Unit:

3629

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment-IDS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

## TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

## RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date\_12-28-07

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Sanjeev K. Dhand Attorney for Applicant Registration No. 51,182 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO	С	omplete if Known
OVP E PRORMATION DISCLOSURE	Application Number	10/613,623
STEATEMENT BY APPLICANT	Filing Date	07/03/2003
2 0 2004 23	First Named Inventor	Gregory J. McRae
DEC 3	Group Art Unit	3629
(use many sheets as necessary)	Examiner Name	
of 3	Attorney Docket Number	037010-0105

U.S. PATENT DOCUMENTS									
Examiner Cite Initials* No.1	U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant				
		Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear			
	A1	6173240		Sepulveda et al.	01-09-2001				

FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No. <sup>1</sup>	Fore Office 3	eign Patent D Number <sup>4</sup>	Ocument Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sub>e</sub>
	A2	Adomian, G., Stochastic system analysis, in <i>Applied Stochastic Processes</i> , edited by G. Adomian, pp. 1-17, Academic, San Diego, Calif., 1980	
	А3	Cukier, R.I., Fortuin, C.M., Shuler, K.E., Petschek, A.G., and Schaibly, J.H., Study of the sensitivity of coupled reaction systems to uncertainties in rate coefficients, I, Theory, J. Chem. Phys., 59, 3873-3878, 1973	
	A4	Derwent, R.G., Treating uncertainty in models of the atmospheric chemistry of nitrogen compounds, <i>Atmos. Environ.</i> , <b>21</b> , 1445-1454, 1987.	
	A5	Dunker, A.M., The Decoupled Direct Method for calculating sensitivity coefficients in chemical kinetics, <i>J. Chem. Phys.</i> , 81(5), 2385-2303, 1984.	
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Date Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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	Substitute for	form 1449B	/PTO	Complete if Known			
	INFORMATIO	ON DISCLO	SURE	Application Number	10/613,623		
	STATEMENT	BY APPLI	CANT	Filing Date	07/03/2003		
				First Named Inventor	Gregory J. McRae		
				Group Art Unit	3629		
	(use as many si	heets as ne	cessary)	Examiner Name			
Sheet	2	of	3	Attorney Docket Number	037010-0105		

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A9	Koda, M., McRae, G.J. and Seinfeld, J.H., Automatic sensitivity analysis of kinetic mechanisms, <i>Int. J. Chemical Kinetics</i> , 11, 427-444, 1979.	
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	A14	Morgan, M.G., Henrion, M., and Small, M., Uncertainty, A Guide to Dealing with Uncertainty in Quantitative Risk and Policy Analysis, Cambridge University Press, New York, 1992.	
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	A16	Pierce, T.H. and Cukier, R.I., Global Nonlinear Sensitivity Analysis using Walsh functions, J. Comput. Phys., 41, 427-443, 1981.	

Examiner	Date	·
Signature	 Considered	J

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Approved for use through 10/31/2002. OMB 0651-0031

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	Substitute for form	n 1449B/	PTO		Complete if Known	
	INFORMATION D	DISCLO	SURE	Application Number	10/613,623	
	STATEMENT BY	APPLI	CANT	Filing Date	07/03/2003	
				First Named Inventor	Gregory J. McRae	
				Group Art Unit	3629	
	(use as many sheet	ts as ne	cessary)	Examiner Name		
Sheet	3	of	3	Attorney Docket Number	037010-0105	

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	I A I ITAM (NOOK MAGAZINA JOHENA) PARIAL PUMNAPILIM PATALAA ATA AATA NAGA(A) YALIMA ISAHA						
	A17	Pan, W., Tatang, M.A., McRae, G.J. and Prinn, R.G., "Uncertainty Analysis of Direct Radiactive Forcing by Anthropogenic Sulfate Acrosols, J. Geophysical Research, 102, (D18), 21,915-21,924, 1997.					
	A18	Serrano, S.E. and Unny, T.E., Random evolution equations in hydrogeology, Applied Mathematics and Computation, 39, 97s-122s, 1990.					
,	A19	Tatang, M.A., Direct Incorporation of Uncertainty in Chemical and Environmental Engineering Systems, Ph.D. Thesis, Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, 1995.					
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	A21	Wiener, N., The homogeneous chaos, Amer. J. Math., 60, 897-936, 1938.					

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